

PATENT ABSTRACTS OF JAPAN

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(21)Application number : **61-218478** (71)Applicant : **NITTO ELECTRIC IND CO LTD**

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(54) ADHESIVE TAPE

(57)Abstract:

PURPOSE: To improve water resistance and tearability and to reduce weight and cost, by using specified materials for warps and wefts constituting the base of an adhesive tape and providing a synthetic resin laminate layer on at least one side of the base.

CONSTITUTION: This adhesive tape is provided with an adhesive layer on at least one side of a base woven of warps and wefts. In the base, the warp is formed from a polyolefin multifilament (a) and the weft is formed from a high-melting multifilament contg. a monofilament (b) having an m.p. higher by at least 10°C than that of said polyolefin multifilament. A synthetic resin laminate layer is provided on at least one side of the base. A preferred example of the component (a) is a polypropylene multifilament. Preferred examples of the component (b) are polyester, polyamide and acrylic monofilaments.

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Thema: Thermoplast and „extrusion coating“ (Patente)

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TI Tearable adhesive tape - comprises woven wefts and warps of poly olefin multifilament wool with different m.pt.s. and resin layer.

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PA (NITL) NITTO ELECTRIC IND CO

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Tearable adhesive tape comprises adhesive layer(s) provided on the surface(s) of woven substrate tape comprising weft of poly-olefin multifilaments and warp of high m.pt. multifilaments containing monofilaments having m.pt. higher by at least 10 deg.C. than that if the polyolefin multifilaments are laminated with synthetic resin layer on the surface(s) of woven substrate.

The polyolefin is pref. polyethylene, polypropylene or polybutene-1 having density = 0.91-0.97 g/cm³. or ethylene/propylene copolymer, etc. The multifilaments for woof comprise 1-10 denier-monomfilaments and have total fineness = 30-200 denier. The multifilaments for the warp comprise monofilaments of polyester, polyamide, polyvinyl chloride, polyacrylate, polyvinyl alcohol, polyvinylidene chloride polyacrylonitrile or polypropylene and have total fineness = 30-500 denier. The substrate tape comprises warp containing 30-130 multifilaments/inch and woof containing 30-100 multifilaments/inch. The laminating film is olefinic (co)polymer or other thermoplastic resin and laminated on the substrate tape by extrusion or melt coating to a thickness of 5-80 microns.

USE/ADVANTAGE - The adhesive tape has high water resistance and it is tearable easily and linearly with fingers.

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FS CPI GMPI

FA AB

MC CPI: A04-G01E; A12-A01; A12-S05F; F02-A03A; F02-E03; F03-E01; F04-E; G03-B04

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